 <b>MACRO</b> VISION ACADEMY BURHANPUR	<b>Entrance Paper (2024-25)</b>		<b>For Office Use Only</b>
	<b>Class:</b>	IX (SAMPLE PAPER-III)	
	<b>Time:</b>	02:30 Hrs.	
	<b>M.M:</b>	75	

### Personal Information

**Student's Name:-** \_\_\_\_\_ **Father's Name:-** \_\_\_\_\_

**City:-** \_\_\_\_\_ **Mobile No:-** \_\_\_\_\_ **Exam Date:-** / / 2024

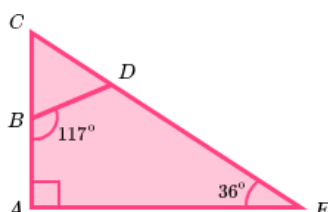
**Studying in Class:-** \_\_\_\_\_ **Appearing for class:-** \_\_\_\_\_ **Board:-** \_\_\_\_\_

#### GENERAL INSTRUCTIONS:

- All questions are compulsory.
- Section A contains 20 questions (from 1-20) of Mathematics.
- Section B contains 25 questions (from 21-45) of Science.
- Section C contains 10 questions (from 46-55) of Social Science.
- Section D contains 18 questions (from 56-73) of English.

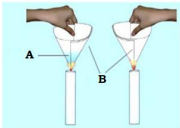
Mathematics (20)	Science (25)	So. Science (10)	English (20)	OBTAINED MARKS (75)

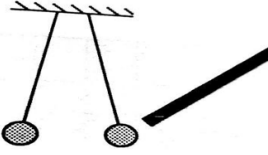
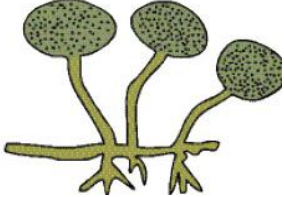
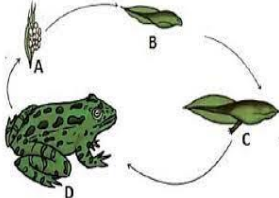
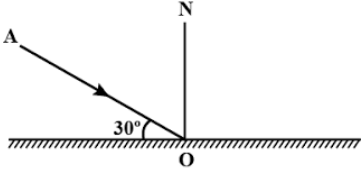
Section-A Mathematics		
Q.No.	Questions	Answers
<b>Answer the Following Questions.</b>		
1.	The value of $\left(-\frac{7}{2}\right) + \left(-\frac{8}{3}\right) + \frac{7}{12}$ is _____	$-\frac{67}{12}$
2.	If the perimeter of rectangle is 48 cm and its breadth is 6 cm, then the area of rectangle is _____	$108 \text{ cm}^2$
3.	In the given fig. if $\angle A = 90^\circ$ , find $\angle BDE$ _____	$117^\circ$



4.	The value of $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$ is _____	$-\frac{11}{28}$
5.	Name the property under which the following multiplication is done: $-\frac{11}{28} \times \frac{2}{7} = \frac{2}{7} \times \left(-\frac{11}{28}\right)$ _____.	Commutative
6.	What number will be obtained when $\frac{6}{13}$ is multiplied by reciprocal of $-\frac{7}{16}$ _____	$-\frac{96}{91}$
7.	15 men can build a wall in 42 hours, how many workers will be required for the same work in 30 hours _____.	21
8.	Rekha bought a saree for Rs. 1240 and sold it for Rs. 1147. Find loss percent _____.	$\frac{15}{2}$ % <b>OR</b> 7.5%
9.	In a parallelogram ABCD if $\angle A = 70^\circ$ and $\angle B = (2x + 40)^\circ$ , the value of $x$ is _____.	35
10.	Find the area of the triangle whose height is 28 cm and the base is $\frac{1}{4}$ th the length of the height _____.	$98 \text{ cm}^2$
11.	The value of $\left[(-3)^{-1}\right]^{-1} \div 3^2$ is _____.	$-\frac{1}{3}$
12.	In a scout camp, there is food provision for 300 cadets for 42 days. If 50 more persons join the camp, for how many days will the provision last _____.	36
13.	If $ab=5$ and $a+b=3$ , then value of $a^2+b^2$ _____.	-1
14.	The factors of $3x^2+x-2$ is _____.	$(3x-2)(x+1)$
15.	The area of a circle is $154 \text{ cm}^2$ . Then the radius of circle is _____. $\left(\pi = \frac{22}{7}\right)$	7 cm
16.	<b>Statement 1 (S<sub>1</sub>):</b> Sum of two integers is always an integer. <b>Statement 2 (S<sub>2</sub>):</b> Addition of integers follow the commutative property. (a) Only S <sub>1</sub> is correct. (b) Only S <sub>2</sub> is correct. (c) Both S <sub>1</sub> and S <sub>2</sub> are correct. (d) Both S <sub>1</sub> and S <sub>2</sub> are incorrect.	(c) Both S <sub>1</sub> and S <sub>2</sub> are correct.

17.	<p><b>Statement 1 (S<sub>1</sub>):</b> Value of <math>(y-3)^2</math> is <math>y^2 - 9</math>.</p> <p><b>Statement 2 (S<sub>2</sub>):</b> Value of <math>(y-4)(y-2)</math> is <math>y^2 - 8</math>.</p> <p>(a) Only S<sub>1</sub> is correct.  (b) Only S<sub>2</sub> is correct.  (c) Both S<sub>1</sub> and S<sub>2</sub> are correct.  (d) Both S<sub>1</sub> and S<sub>2</sub> are incorrect.</p>	(d) Both S <sub>1</sub> and S <sub>2</sub> are incorrect.
<p><b>Case study (Q.18 – Q.20)</b></p> <p><b>Based on the given information, answer the following questions.</b></p> <p>Sohan wants to prepare a chart on education of children for a social work campaign. The chart is in the shape of a parallelogram ABCD with AB = 5 cm, BC = 6 cm and <math>\angle D = 85^\circ</math></p>		
18.	What will be the measurement of $\angle A$ _____.	95°
19.	What will be the measurement of $\angle B$ _____.	85°
20.	What will be the sum of the side AD and DC i.e. AD+DC=_____.	11 cm
<p><b>Section-B</b></p> <p><b>Science</b></p>		
<b>Answer the following:</b>		
21.	Which gas is formed, during incomplete combustion of petrol and diesel?	Carbon monoxide
22.	What is the SI unit of pressure?	Pascal, N / m <sup>2</sup>
23.	What is the function of the ribosomes?	Protein synthesis
24.	Name the agent that carry malaria parasite?	Female anopheles mosquito
25.	Name the type of short season crop grown between Kharif and Rabi seasons.	Zaid crop
<b>Fill in the blank.</b>		
26.	Charge balloon will get _____ by charged balloon	Repelled
27.	The kind of plant grown and cultivated at one place on large scale is called	Crop
28.	The unit of frequency is _____	Hertz
29.	The longest cell in human body is _____	Nerve cell
30.	Sound is produced by the _____ Of an objects.	Vibration

<p><b>Case study (Q.31 – Q.33)</b></p> <p><b>Based on the given information, answer the following questions.</b></p> <p>A great variety of plants and animals exist on earth. They are essential for the well-being and survival of mankind. To preserve biodiversity, to prevent extinction of endangered species, and to maintain ecological balance in nature, wildlife and forests should be conserved. Habitat is a place in environment where an organism lives. Today, a major threat to survival of these organisms is deforestation. We know that deforestation means clearing of forests and using that land for other purposes. Trees in the forest are cut for many purposes. Some natural causes of deforestation are forest fires and severe droughts. The answer to deforestation is reforestation.</p> <p>Reforestation is restocking of the destroyed forests by planting new trees. The planted trees should generally be of the same species which were found in that forest. We should plant at least as many trees as we cut. Reforestation can take place naturally also.</p>		
31.	Name the first reserve forest of India.	Biosphere
32.	Which book provide all the information about the endangered species.	Red data book
33.	Name the plants and animals found in a particular area?	Endemic species
<p><b>Write T for True &amp; F for False. (Q.34-Q.35)</b></p>		
34.	The main carbon component of coal is carbon dioxide.	False
35.	Winter crops are known as Rabi crop.	True
<p><b>Give one word for:</b></p>		
36.	A force of 15 Newton is applied on an area of 2 m <sup>2</sup> . Compute pressure being applied to the area. Also mention the unit of pressure	7.5 pascal
37.	which gas is mainly responsible for ozone depletion.	CCF
38.	Name the force that causes wear tear of types of moving vehicle.	Friction force
39.	Name the part of eye that gives colour to eye.	Iris
40.	Which bacteria promotes the formation of curd	Lactobacillus
<p><b>Solve the following questions.</b></p>		
41.	Which of the following will catch fire easily and why	B (Due to ignition temperature)
		

42.	<p>In the given figure P and Q are metal balls hanging from the nylon thread when a negative charge rod is placed between them P is repelled and Q is attracted by the rod because P ____ and Q ____</p> 	<p>P is Negative Q is Positive</p>
43.	<p>Identify the organism shown.</p> 	Rhizopus fungus / Bread mould
44.	<p>Name the phenomenon shown in above cycle.</p> 	Metamorphosis
45.	<p>Find the angle between the incident ray and reflected ray.</p> 	60°
<p><b>Section-C</b> <b>Social Science</b></p>		
	<p><b>Give one word for:</b></p>	
46.	<p>What type of government India practiced?</p>	Democracy
47.	<p>In a monarchy, citizens choose their leaders so that they can exercise power with responsibility on the citizen's behalf. (True/False)</p>	False
48.	<p>Who helped Colin Campbell to rescue the British holed up in the residency of Lucknow?</p>	Gurkha regiment
49.	<p>Name the able commander- in chief of Nana Saheb who led the revolt in Kanpur.</p>	Tantia Tope

50.	Identify the given image. 	Supreme Court of India
51.	Mention some public facilities that only the government can provide and maintain.	Roads, Railways, Sanitation, Water supply, Electricity.
52.	Viticulture or Viniculture is related to what?	Cultivation of Grapes
<p><b>Case study (Q.53 – Q.55)</b></p> <p><b>Based on the given information, answer the following questions.</b></p> <p>Letters and memos that moved from one branch of the administration to another in the early years of the nineteenth century can still be read in the archives. You can also study the notes and reports that district officials prepared or the instructions and directives that were sent by officials at the top to provincial administrators.</p> <p>In the early years of the nineteenth century, these documents were carefully copied out and beautifully written by calligraphists – that is, by those who specialised in the art of beautiful writing. By the middle of the nineteenth century, with the spread of printing, multiple copies of these records were printed as proceedings of each government department.</p>		
53.	Who were calligraphists?	Those who specialised in the art of writing.
54.	What made it easy to get the multiple copies of record?	Spread of printing.
55.	What were these letters and memos that moved from one branch of the administration to another?	Instructions and directives of provincial administrators.
<p><b>Section-D</b></p> <p><b>English</b></p>		
<p><b>Read the passage given below:</b></p>		
<p>The stock taking done at the first national convention on consumer protection served to highlight the areas that called for special attention to sustain the momentum of the movement as genuine forum for safe guarding the people's interests.</p> <p>Spreading awareness about the rights of the consumers and the relief open to them in case they did not get their money's worth of goods and services has rightly been identified as the</p>		

	<p>first priority. While this may not be a difficult task in urban areas, where the movement is concentrated at present, taking it to the vast rural hinterland calls for a multi-media approach in which radio and television have a crucial role to play.</p> <p>The involvement of the 500 odd consumer organisations in the country in publicising the concept of fair trade practices and the remedies available against their violation will prove rewarding, if the message is conveyed through village bodies.</p> <p>Government efforts remain confined at best to setting up the infrastructure after the formal launch of the movement with the enactment of the Consumer Protection Act. The mounting backlog of cases in consumer courts, points to the need for toning up the district level redressal machinery.</p> <p>The main objective of the movement is the creation of a culture that denies place in the market for products that are not consumer friendly.</p> <p>This is possible only if consumer bodies take over the watchdog role performed by the Government till now and exercise social control over the market to see that the benefits of liberalisation are not repeated by traders alone. But the plea to industry to exercise self regulation and maintain minimum standards of quality and devise appropriate pricing is bound to go unheeded unless strict measures are taken to ensure compliance.</p>	
<b>Based on your understanding of the passage, choose the appropriate option:</b>		
56.	<p>The first national convention on Consumer Protection has ___</p> <p>(a) given it a momentum</p> <p>(b) spread awareness about consumer rights</p> <p>(c) highlighted the areas for special attention</p> <p>(d) specified in relief open to the consumer</p>	(c) highlighted the areas for special attention
57.	<p>Consumer Protection Act proposes to give the consumer protection against ___</p> <p>(a) cheating by selling substandard goods</p> <p>(b) denial of relief if the product is not up to the mark</p> <p>(c) highly priced substandard goods</p> <p>(d) not getting his money's worth</p>	(a) cheating by selling substandard goods
58.	<p>Government contributed to the Consumer Protection Movement by ___</p> <p>(a) enactment of the Consumer Protection Act</p> <p>(b) setting by infrastructure</p> <p>(c) clearing the backlog cases in the consumer court</p> <p>(d) toning up a district level redressal machinery</p>	(b) setting by infrastructure

59.	Spreading Consumer Protection Movement to the rural areas needs ____ (a) message to be conveyed by village bodies (b) consumer organisation to canvass this (c) official patronage (d) a multi-media approach	(d) a multi-media approach
60.	Role of consumer bodies is ____ (a) to exercise social control over the market (b) to make a plea of industry to exercise self control (c) to function as a watchdog (d) to maintain minimum standards of quality	(a) to exercise social control over the market
<p><b>Fill in the following blanks given below choosing the most appropriate options from the ones that follow.</b></p> <p>Nearly 100 million years ago, (61)_____ the middle of what is now Mongolia, there was a series of events (62) _____ a massive volcanic eruption. The ashes (63) _____ scattered over the wet soil of the land (64) _____ sticky mud. Meat-eating dinosaurs and other creatures in the area looking for food (65) _____ an early and sudden death as they sank in the mud.</p>		
61.	(a) in            (b) on            (c) over            (d) at	(a) in
62.	(a) include    (b) includes    (c) including    (d) will include	(c) including
63.	(a) those        (b) that            (c) which        (d) thus	(b) that
64.	(a) form         (b) formed        (c) forming      (d) forms	(b) formed
65.	(a) meet         (b) meeting      (c) meets        (d) met	(d) met
66.	Unscramble the following word and write the correct one: DEAH _____	HEAD
67.	In the following question, sentences have been divided into parts. The first is given and the remaining four parts named as P, Q, R, S are jumbled. Rearrange the parts P, Q, R, S to form meaningful sentence. <i>I keep on flapping my big ears all day _____</i> P: They also fear that I will flip them all away. Q: But children wonder why I flip them so. R: I flap them so to make sure they are safely there on either side of my head. S : But I know what I am doing. The correct sequence should be: (a) SRQP        (b) QPSR        (c) QPRS        (d) PSRQ	(c) QPRS



68.	<p>In the following question, some parts of the sentence have been jumbled up. You are required to rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the option with proper sequence.</p> <p><i>Before presenting a paper it is advisable to choose a subject of your interest _____</i></p> <p>(P) When presenting your paper, speak distinctly and pleasantly.  (Q) Next, 'read up' about it, before you write the paper.  (R) Then prior to writing make a clear plan to ensure orderly presentation.  (S) While reading, you should make notes</p> <p>In this way, the interest of the listeners is enhanced and you are appreciated.</p> <p>The correct sequence should be.</p> <p>(a) RSQP      (b) PQRS      (c) QSRP      (d) SQRP</p>	(c) QSRP
69.	<p>What shall come in place of the blank in the given analogy?  SCRIBBLE : WRITE :: STAMMER: _____</p> <p>(a) walk      (b) play      (c) dance      (d) speak</p>	(d) speak
70.	<p>Based on the given analogies, find the odd one out.</p> <p>(a) Book : Author                      (b) Art : Artist  (c) Invention : Scientist              (d) Patients : Doctors</p>	(d) Patients : Doctors
71.	<p>Select the most appropriate meaning of the given phrase/idiom.</p> <p>Cross your fingers _____</p> <p>(a) Do nothing and hope that everything falls in its place automatically  (b) To express disapproval or dissatisfaction  (c) Tell others that you will agree to something only on certain conditions  (d) To hope that things will happen in the way that you want them to be.</p>	(d) To hope that things will happen in the way that you want them to be.
72.	<p>Select the most appropriate meaning of the given phrase/idiom.</p> <p>Be out of order _____</p> <p>(a) Some goods which are out of stock  (b) Do something against the court ruling  (c) A device not working properly or at all  (d) things kept in an organised manner</p>	(c) A device not working properly or at all

73.

**Write a descriptive paragraph with the help of given picture. Give it a suitable title. (80-100 words) (3 Marks)**



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### **Rough Work**